

ABSTRACT

An improved interrupt control mechanism is provided in a system in which a plurality of OS's (OS's) are concurrently operating. In the system, a main OS executing an interrupt control process is set up, sub OS's other than the main OS are not provided with a right to determine an interrupt mask, the sub OS notifies the main OS whether the sub OS is in an interrupt enabled state or an interrupt disabled state, and the main OS performs an interrupt mask control process based on the notified information. In this arrangement, an inconvenience that an interrupt process is reserved due to a mask control performed by the sub OS itself is corrected, the main OS can perform the interrupt control as the main OS intends, and a required interrupt process can be performed with priority. Memory area is saved because a vector area of the sub OS is managed by the main OS.